

AUTHOR:

Myuller, R. M.

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B004/B117

TITLE:

The Third All-Union Conference on the Vitreous State

ERIODICAL:

Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, 1960,

Nr 1, pp 144-145 (USSR)

ABSTRACT:

The third All-Union Conference on the Vitreous State was organized in Leningrad from November 16 to 20, 1959, by the Institut khimii silikatov AN SSSR (Institute of Silicate Chemistry AS USSR), the Vsesoyuznoye khimichskoye obshchestvo im. D. I. Mendeleyeva (All-

Union Chemical Society imeni D. I. Mendeleyev) and the

Gosudarstvennyy opticheskiy institut im. S. I. Vavilova (State Institute of Optics imeni S. I. Vavilov). In the resolution adopted by the Conference, 17 scientific institutions are mentioned which contributed most effectively to the study of the problem of the vitreous state during the last six years. Among them, the State Institute of Optics, the Institute of Silicate Chemistry of the AS USSR, the Fizicheskiy institut AN SSSR (Physics Institute of AS USSR), the Fiziko-tekhnicheskiy institut AN SSSR (Institute of Physics and Technology of the AS USSR), the Institut fiziki AN BSSR (Institute of Physics of the AS BSSR), the Institut khimii AN BSSR (Institute of Chemistry of the AS BSSR), the Institut vysoko-

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The Third | 11-Union Conference on the Vitreous ite

Card 2/5

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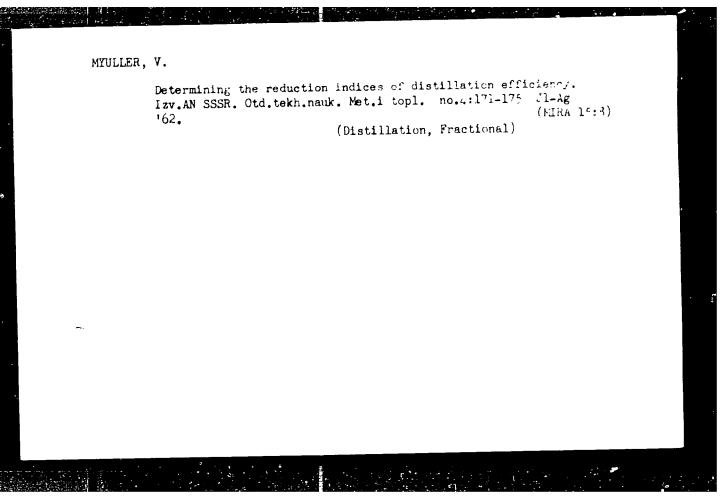
polimerov AM SSSR (Institute of High Polymers of the AS USSR), the Gosudarstvennyy institut stekla (State institute of Glass), the Leningradskiy gosudarstvennyy universitet (Leningrad State University), the Leningradskiy tekhnologicheskiy institut im.Lensoveth (Leningrad Institute of Technology imeni Lensovet). 101 lecture were held. More than 300 representatives of scientific institution and about 100 representatives of industry were present. The following lectures are mentioned: A. A. Lebedev (State Institute of Optics) on the most recent data obtained in optical research; Ye. A. Poray-Koshits (Institute of Silicate Chemistry) on new X-ray study of submicroscopic inhomogeneous structure; N. V. Belov (AS USSR) on the importance of investigating complex crystal lattices with a high number of atoms in the elementary cell for the problem of the vitreous state; M. A. Bezborodov (AS Belorussian SSR) on new complex glasses; K. S. Yevstrop'yev (State Institute of Optics) or relations between the structure and the properties of glass; 3 Vogel (Eastern Germany, Firm of Schott, Jena) on the electron microscopic investigation of glass; H. L. Myuller (Leningrad State University) on chemical particularities of vitrifying polymeric substances; N. A. Goryunova and B. T. Kolomiyets (Institute of

The Third All-Union Conference on the Vitreous State

S/054/60/000/01/022/C B004/B11?

Physical Technology AS USSR) on the vitrification of semiconductor materials synthetized from chalcogenides of As, Sb, and Th; V. V. Tarasov (Khimiko-tekhnologicheskiy institut im. Mendeleyeva (Institute of Chemical Technology imeni Mendeleyev)) on investigations of the specific neat of vitreous systems; A. G. Vlasov (State Institute of Optics) gave a theoretical analysis of vibrations of the glass lattice. The subsequent seven meetings dealt with experimental, theoretical, and technological problems.

Card 3/3

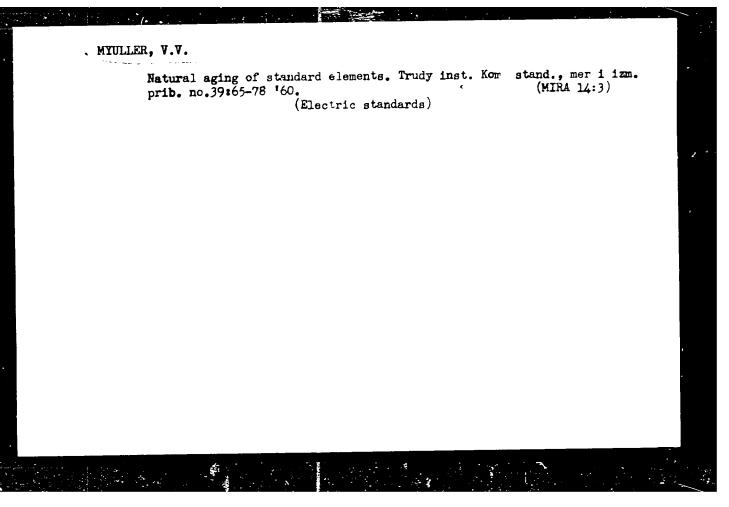


GORBATSEVICH, S.V.; MYULLER, V.V.; LUK'YANOV, P.N.

Ourrent balance and determination of the value of the volt standard.

Trudy YBIIM no.31:5-18 '57. (MIRA 11:11)

(Electric standards)

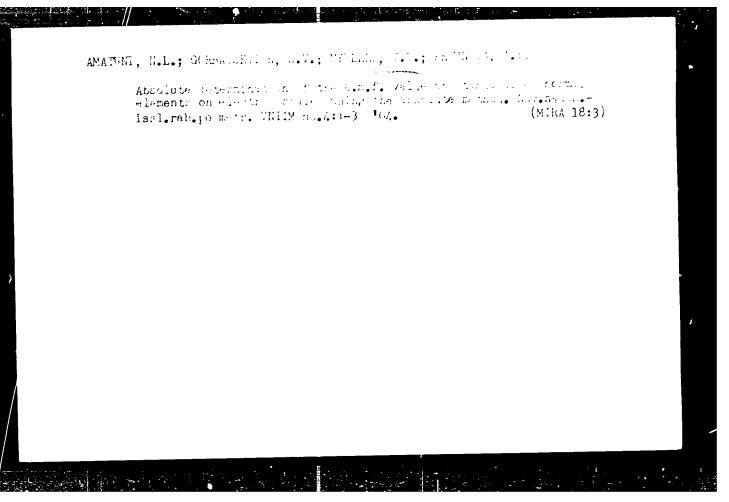


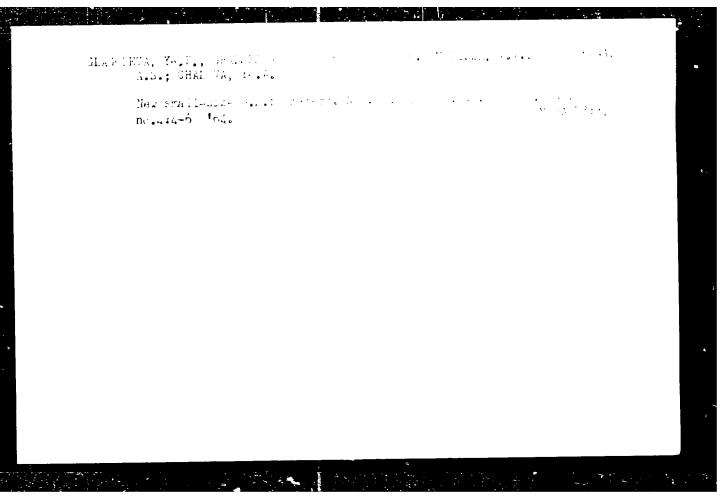
- MYULLER, V.V.

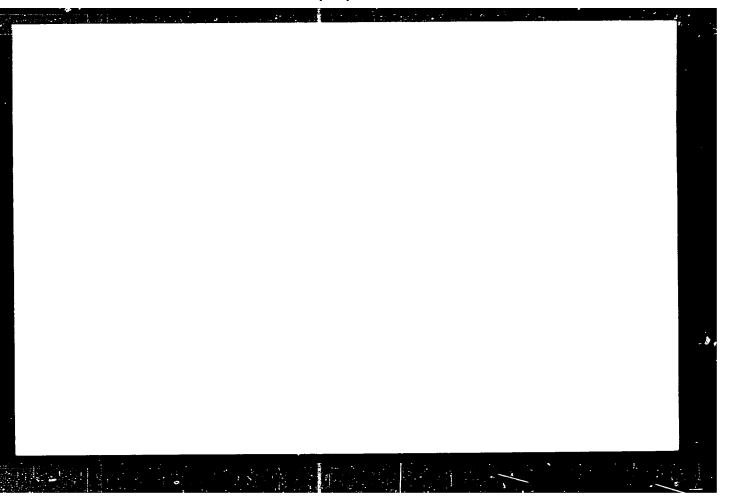
Methodology for measuring the e.m.f. of standard cells using electric current scales. Trudy inst. Kom. stand., mer i imm. prib. no. 52:15-26 161. (MIRA 14:10)

1. Vsesoyuznyy nauchno-issledovatel skiy institut metrologii im. D.I. Mendeleyeva.

(Electric batteries—Standards)
(Electric measurements)







APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135910001-0"

: USSR Country : Fur: Aud. 1". Category Poultry. : Ref Zaur-Biol., No 21, 1953, 96916 Abs. Jour ! Eguller, Zdenek Author Institut. : The Effect of Procains Penicillin upo . The Title Productivity of dens. : Hezhdunar. s.-kh. zh., 1957, No 2, 131-140 Orig Pub. : During a 9-month period the results of apply Abstract ing procaine penicillin (PP) in the feeding of hens were observed on 6000 hens at 15 chicken farms in Czechoslovakia. Procuine penicillin was added in a dose of 5 mg to each kg of feed The control and the experimental groups of hens were kept u der the same conditions. At some of the farms, the ogg productivity of hens which received PP rose by 5-25 percent. In February it was higher by 27 percent, in Larch by 24.4 percent, in April by 12.9 per-1/3 Card:

: USSE Country Q : Farm Animals. Category Poultry. : Ref Zhur-Biol., No 21, 1958, 96916 Abs. Jour Author Institut. Title Orig Pub. cent, in May by 7.8 percent, in June by 10 percent, and in September by 19.1 percent. During Abstract the entire experimental period the disparity of egg weights was 1.4 percent higher for the experimental group. The weight of the egg albumen was higher in the experimental group than in the control group. The egg-yolk of the former contained almost twice as much beta-carotene and carotinoids. In incubation, 21.2 percent more eggs were excluded from the eggs of 2/3 Card: **3/3**

USSR/Farm Animals. Swine.

Q-2

Abs Jour: Ref Zhur - Fiol., Mo. 22, 1951, 101784

Author : Myuller, Zdenek

Inst : -

Title : Some Fesults in Testing Antibiotics for the

Fattering of Swine.

Crig Tub: Za stos. s.-kh. nauku, 1957, A6, Yo. 4, 35, -368

Abstract: This paper points out that for some fattening procedures the use of chlortetracycline is

more effective than the use of penicillin. With chlortetracycline feed preparations, average weight gains were increased by 14

percent, where s penicillin feed salts increased

them by only 9 cercent.

Card 1/1

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MYULLERBEK, Ye. Kh. Cand Med Sci -- (diss) "On the Problem of the Diagnostic Importance of V. A. Val'dman's Jar Test in Some Children Linesses." Len, 1957. 16 pp 20 cm. (Len State REMIX Pediatric Medical Inst), 100 copies (KL, 18-57, 98)

- 56 -

MYULLER BEK, Ye.Rh.

V.A. Val'dman's cupning test. Vop.okh.mat. i det. 3 no.3:63-66 Jl-Ag '53

MYULLERBEK, Ye.Kh. Ulinical and diagnostic significance of Waldman's cupping glass test in the clinical treatment of children's diseases [with summary in English]. Pediatria 36 no.1:60-67 Ja '58. (MIRA 11:2)

Anglish]. Pediatriia 36 no.1:60-67 Ja 158.

1. Iz kafedry gospital'noy pediatrii (zav. - deystvitel'nyy chlen AHN SSSR zasiuzhennyy deyatel nauki orof. A.F. Tur) Leningredskogo pediatricheskogo meditsinskogo instituts (dir. - prof. N.T.Shutova) (BLOOD--EXAMINATION)

L 43881-65 EWT(1)/EWT(m)/EWF(b)/EWF(t) P1-4 IJP(c) ACCESSION NR: AP5006429 8/0051/65/018/003/0432/0439 AUTHOR: Myreller-Bushbaum, C.; Vittemen, C. TIVILE PLUDE SCENCE OF TATE CATTLES. It Initial spectra of see based on borate compounds of group II of the periodic system SOURCE: Optile: 1 spektroskopiya, v. 18, no. 3, 1965, 432-439 TOPD: MGS: [luorescence, Fare earth, initial spectrum, samarium, luminor activator, vorate compound, group II element ABSTRACT: The sethod of line Cluorescence of rare-earths, proposed by R. Tomaschiel (Ergeon. Brakt. Naturwiss, v. 20, 268, 1942), is used for an analysis of the emission spectra of semarium vorates of the II group of the periodic system, which can not be investigated by x-ray diffraction. The substances studied were borates of calcium; strontium, barium, beryllium, and magnesium, as well as eutectics of borate compounds and non-stoichiometeric complicated products of calcination with elements of group II. The excitation was with ultraviolet light. The experimental data are drawn from the literature. The line spectra of sararium emission were also used to obtain data on less characteristic lends of the exission spectrum of Card 1/2

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ACCESSION BRE APPOCA29

aireary known borate luminors activated with lead and thallius. The data are used to investigate the influence of the host lattice on the activator. The emission phosphors of borate activated with lead are compared with those activated with samarium. The results show that within the II group the effect of the microcrystal line force field on the activator ion increases from beryllium to barium. The use of different phosphor compositions but identical cations intensifies the interaction between activator and the host lattice on going from acid to base borates. The smaller the disturbance of the activator ion by the crystal field, the shorter the wavelength of the radiation. Very high activator concentrations can produce intrinsic long-wave radiation. The cutectics emit both bands in the spectrum simultaneously, meaning that the term levels corresponding to each component can exist separately. Orig. art. has: 6 figures and I table.

ASSOCIATION: Institute of Physical Chemistry, Greiffswald University, GDR

SUBSCITED: 16Mar64 ENCL: 00 SUB CODE: OP, 1C

KIR REF SOV: OOL OTHER: OLL

Card 2/2/4/6

VR/0251/64/036/002/0409/0414 ACCESSION NR: AP5017978 AUTHOR: Kyalima, E. R. FINAL Start of the strongth and deformation properties of concrete produced with Trebalte serverts COURCE: AF Grasse Soobshehentys, v. S., po. 2, 1964, 409-11 TOPIC FIGS: commette, norsetal compressive strength, mountal tensile strength, nometal clasticity Abstract: (Paper presented by Academician K. S. SAVRIYEV, 22 Key 1964). "Tedzamite" concrete (aggregate of calcined Tedzam tuff) has already been shown to possess superior qualities because of its light-weight aggregate. The present paper is a summary of tests run on various grades of tedzamite concrete, to determine compressibility and elasticity. It was concluded that (1) tedzamite concretes have high specific strength in the case of the cement ratios studied, (2) they may be assumed to have identical values of primutic and cubic stability, (3) the ratio of the tensile strength limit to the compressive strength limit can be assumed to conform with the SMIP (Construction Norms and Standards), and (5) the moduli of elasticity

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The article is accompanies to special light	pained by several tables and a weight aggregates (artificial	aggregates and	
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MYJL'MAN, E.R.

AID P - 1745

Subject : USSR/Hydraulic Engineering Construction

Card 1/1 Pub. 35 - 4/21

Author: Verbetskiy, G. P. and Myul'man, E. R.

Title : Production of high quality concrete by preliminary

vibration of the cement mixture

Periodical: Gidr. stroi., v.24, no.2, 7-9, 1955

Abstract : According to tests made in the Institute of Hydroelectric

Construction in Tbilisi and the Tbilisi Railroad Institute a new method of Vibrating cement grout and

paste was devised. The advantages of using vibrators for obtaining a better frost-resistant and impervious con-

crete is discussed and the use of small grain sand is recommended. Two tables showing compressive strength of concrete are included, with a schematic diagram showing

the process of concrete mixing.

Institution: None

Submitted: No date

MANER

98-58-7-3/21

AUTHORS:

Verbetskiy, G.P., Candidate of Tec nical Sciences, Lyul'-

man, E.R., Engineer

TITLE:

Hydrotechnical Concrete from Vibroactivated Cement (Gidrotekhnicheskiy betor na vibroaktivirovannom tsemente.)

PERIODICAL:

Gidrotekhnicheskoye stroitel'stvo, 1958, Nr 7, pp 9-12(USSR).

ABSTRACT:

Cements of brands 300-400 actually delivered to the Soviet building industry are not ground finely enough and therefore their potential possibilities are not fully utilized in the concrete. When ground in vibromills, their activity increases 13-2 times. Professor Yu.M. Butt(ref.1) finds that the dimension limit of the grain of cement is in the order of 3 microns. It was also found that excessively fine grained cement is less resistant to frost due to increased water absorption. Lower frost resistance necessitated the application of another technologic process of preparing concrete. The authors describe the method of humid cement activation. It is achieved by mechanical processing of cement suspension, cement dough or cement-sand hard solution from which the concrete is subsequently made. (Ref. 4 and 5). Concrete made from the activated cement possess in-

Card 1/3

Hydrotechnical Concrete from Vibroactivated Cement

98-58-7-3 []

creased strength and density. It is and abroad for separate concreting of hydrotechnical constructions (sef. 6) Following the suggestion made by Professor Yu.Ya. Shtayerman, the TNIJCEI elaborated a new effective method of humid activation of cements, called vibroactivation. It consists of a 10-minute vibroprocessing of cement dough or cement-sand solution of hard consistency. Special research has shown that the vibration of freshly mixed cement dough or solution intensifies the process of dispersion and peptization of cement grains, quickens and increases their hydrolysis and hydration. As a result, an increased number of colloid products is formed in the cement dough, which increases the cement activity. The concrete mixture, prepared from a vibroactivated mixture, which is hard in static state, becomes very movable and tightens quickly. Besides this, the concrete made from such mixture is more durable and resistant Another feature of the vibroactivating method is a specific action of vibration on the process of the formation of the structure of the concrete. Academician F.A. Rebinder and Professor N.V. Mikhaylov (Ref. 7) find that the vibration of the cement dough delays the formation of a loose aluminate structure and therefore the fine-grained structure is formed after the cessation of vibration. Economic calculations

Card 2/3

Eydrotechnical Concrete from Vibroactivated Coment

98-58-7-3/21

showed that supplementary expenses for electric energy, amortization of the equipment and the manual work are equivalent to 3-5% of the value of the cement but the application of the method saves about 15-20% of the cement. The method was substantiated by numerous tests and experiments cited in the article. There are 2 tables, 1 grath, and 9 references, 8 of which are Soviet and 1 German.

ACSOCIATION: THISGEI

1 Cement--Production 2. Cement--Applications 3. Vibration mills--Applications

Card 3/3

S/188/62/000/006/008/016 B191/B102

AUTHOR: Myunkhov, L.

TITLE: The giant resonance in heavy strongly deformed nuclei

PERIODICAL: Moscow. Universitet. Vestnik. Seriya III. Fizika,

astronomiya, no. 6, 1962, 37-44

TEXT: The position and width it dipole peaks in protonuclear reactions of strongly deformed nuclei of the rare earths are calculated in second-quantization approximation. Considering the residual interaction between the nucleons, the energy of the dipole peaks can be determined from a system of equations, of which one approximate solution is given. (Interaction terms between various particles are considered only). Strongly deformed axisymmetric nuclei are calculated from the solutions, assuming the values for the last oscillator shell of the protons and neutrons were assumed to be respectively N = 4 and N = 5. The case of a nonaxisymmetric nucleus is dealt with also. The possibility of a splitting of the second peak in consequence of deviation from the axial symmetry is considered. Calculations with real nucleon configurations are in preparation.

Card 1/2

S/188/62/c00/006/008/016
3191/3102
ASSCICIATION: NIIYAF
SUBMITTED: March 27, 1962

Card 2/2

MYUNTS, A.

Preparation of a water-oil emulsion in an emulsifier. Sel'. stroi.
no.5:21 My *62.

1. Glavnyy mekhanik tresta Barnaultselinstroy.
(Paint mixing)

MYUNSTER, N.S.; MYUNSTER, F.P.

Rotating speed of vertical-spindle cotton pickers. Izv.
AN Uz.SSR.Ser.tekh.nauk. no.3:29-37 '60.

(MIRA 13:7)

1. Institut mekhaniki AN UzSSR.

(Cotton-picking machinery)

MYUNSTER, F.P.

Analytical method of determining the activity of spindles.

Dokl. AN Uz.SSR 21 no. 10:7-10 '64 (MIRA 19:1)

and the first that the first of the first of

1. Institut mekhaniki AN UzSSR i Vychislitel'nyy tsentr AN UzSSR. Submitted December 18, 1963.

CIA-RDP86-00513R001135910001-0

MYUNTSNER, L.

PHASE I BOOK EXPLOITATION

1211

SOV/5975

International Institute of Welding

XII kongress Mezhdunarodnogo instituta svarki, 29 iyunya - 5 iyulya 1959 v g. Opatii (Twelfth Annual Assembly of the International Institute of Welding, Opatija, June 29 - July 5, 1959) Moscow, Mashgiz, 1961. 359 p. 3000 copies printed.

Sponsoring Agency: Natsional'nyy komitet SSSR po svarke.

Ed. (Title page): G. A. Maslov, Docent; Translated from English, French, and Serbo-Croatian by N. S. Aborenkova, K. N. Belyayev, E. P. Bogacheva, L. A. Borisova, K. V. Zvegintseva, V. S. Minavichev, and M. M. Shelechnik; Managing Ed. for Literature on the Hot-Working of Metals: S. Ya. Golovin, Engineer.

PURPOSE: This collection of articles is intended for welding specialists and the technical personnel of various production and repair shops.

Card 1/#

Twelfth Annual Assembly (Cont.)

SOV/5975

COVERAGE: The collection contains abridged reports presented and discussed at the Twelfth Annual Assembly of the International Institute of Welding. Reports deal with problems of welding and related processes used in repair work, repair techniques, and the problems arising in connection with the nature of the base and filler materials. Examples of repairing various parts are given, and the organization of repair operations in workshops and under field conditions is discussed. Economic aspects of welding and related processes as used in repair work are analyzed. No personalities are mentioned. There are no references.

TABLE OF CONTENTS: [Only Soviet and Soviet-bloc reports are given here]

Foreword

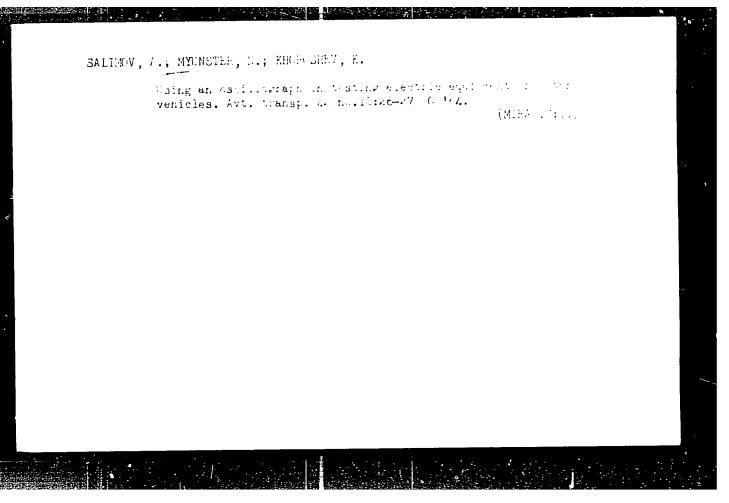
5

PART I. THE STUDY OF REPAIR-WORK TECHNIQUES (PROCESSES, METHODS, PREPARATION, HEATING, AND OTHER TYPES OF PROCESSING CONTROL)

Myuntsner, L. (Czechoslovakia). Welding of Broken Crankshafts

36

Card 2/9



MYUNSTER, N.S.; MYUNSTER, F.P.

Rotating speed of vertical-spindle cotton pickers. Izv.
AN Ux.SSR.Ser.tekh.nauk. no.3:29-37 '60.

(MIR: 13:7)

1. Institut mekhaniki AN UzSSR.

(Cotton-picking machinery)

```
MYURBERG, V.K., inzh.; PLAVEL'SKIY, I.V., inzh.

Se:tional reinforced-concrete supports made of thin-welled, three-dimensional elements for lining major mine workings.

K-epl. gor. vyr. ugol'. shakht no. 1:133-140 :57. (MIRA 11:7)

1. Maregendegiproshakht.

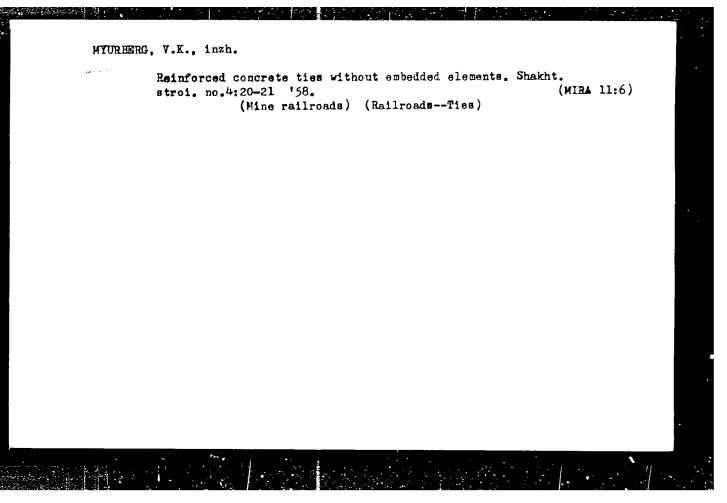
(Mine timbering)

(Reinforced concrete construction)
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MYURBERG, V.K., inshener; ZIZENBERG, G.K., inshener.

Manufacturing reinforced concrete pipes by the drawn vibration core method. Shakht.stroi. no.5:16-18 My '57. (MIRA 10:7)

1. Institut Karagandagiproshakht. (Pipe, Concrete)



ZIZENHERG, G.K., inzh.; MYURBERG, V.K., inzh.

Small one-cylinder hydraulic jack for mechanized lifting of sliding forms. Nov. tekh. i pered. op. v stroi. 20 no.2:12-15 7 158.

(Pipe, Concrete)

(Pipe, Concrete)

MYURBERG, V.K., inzh.; ZIZENBERG, G.K., inzh.; ROGOZOV, V.Ye., inzh.

Constructing electric transmission and communication lines using precast reinforced concrete tubular supports. Nov.tekh. mont.i spets.rab.v stroi. 21 no.11:15-18 N '59.

(MIRA 13:2)

1. Giprouglemash i trest Karagandashakhtostroymontazh.

(Electric lines--Poles) (Precast concrete construction)

25.1000 15.3200 80522

\$/097/60/000/05/03/016

AUTHORS:

Myurberg, V.K., Zizenberg, G.K., Engineers

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TITLE:

Production of Reinforced Concrete Structural Pipes by Means of an

Inserted Vibrating Core

PERIODICAL:

Beton i Zhelezo-Beton, 1960, No. 5, pp. 202 - 208

TEXT: The authors of the article have developed a method, whereby reinforced concrete pipes used for structural purposes can be produced in series in a special installation, capable of turning out 80 to 100 pipes during 24 hours. These pipes have a length of 6 m at a diameter of 200 and 300 mm, and serve mostly as supports for power lines and for street lamps. The novelty of the new method consists in the use of a vibrating core which is inserted into the pipe and consolidates the concrete by means of internal vibration of the core. Another distinctive feature of this method consists in the vertical position of the pipe in the source of production, which is done in a dismountable mold. The vibrating core consists of two parts - the head with a built-in vibrating device and the core which acts as sliding casing inside the mold. After the metal reinforcement is inserted in the form the vibrating core starts operating from the bottom of the mold, while concrete

Card 1/4

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Production of Reinforced Concrete Structural Pipes by Means of an Inserted Vibrating

is being fed from the top; to complete a pipe 6 m long takes from 4 to 8 minutes. After the core has been removed, thermal treatment starts by applying steam into the hollow of the pipe during 4-5 hours; the pipe is now ready with the demolied. thermal treatment is being continued in the steam chamber. In the Karaganda Giproshekht Institute 2 models of installations have been developed - ATV 300 5.5 200/6.5 and ATV 300/7.5 - 200/7.5. Each installation consists of two vertical boring and turning machines, one machine containing 16 molds for paper of 300 mm. in diameter and the other for pipes of 200 mm. Both machines have one upper plan form in common, from which the feeding of concrete takes place. Between the two machines is a pit, which holds two vibrating core units, one for each magnine. A mechanism is regulated in such a way that it turns the macrine 1/16 part of the circumference each time a new form is put in place for processing. A steam distributor supplies steam for thermal treatment of the pipes providing for 13 stages at varying temperatures during 4-5 hours. There is a special lifting device which takes the mold out of the machine for demolding, cleaning, greasing and preparing for a new cycle of operation. The new improved type of installation has a

Card 2/4

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Production of Reinforced Concrete Structural Pipes by Means of an Inserted Victorian Core

capacity of 48 pipes per shift. Steam consumption is 100 kg per hour. There are two 26.4 kw electric motors, one for each machine. The Karaganda Institute Giprouglegormash has elaborated and designed equipment for an automated plant for the production of reinforced concrete pit props, having a capacity of 500 proper 24 hours; a special machine turns out welded carcasses in accordance with M.V. Kvasov's system. The article describes also another type of installation for the production of prestressed pipe sections up to 500 mm in diameter. A chain conveyer carries the molds after molding through the steam chamber, where the thermal treatment takes place in 3 stages of varying temperatures. An alternative method of Professor V.V. Mikhaylov provides for the employment of a shellal grade of fast-setting stressing dement, which eliminates the equipment required for prestressing the metal reinforcement and for thermal treatment in a steam chamber. After being demolded the pipe sections are plunged for 3.6 hours it is

Card 3/4

80522 \$/097,60/000/05F/03-016

Production of Reinforced Concrete Structural Pipes by Means of an Inserted Victarias

water bath at 70-80°C. The vibrating core method permits maximum mechanization and automation of the technological process of producing reinforced concrete river cutting down on production cost about 30.40%, while doubling the production of labor. There are 4 photographs, 2 diagrams, 1 graph and 2 tables.

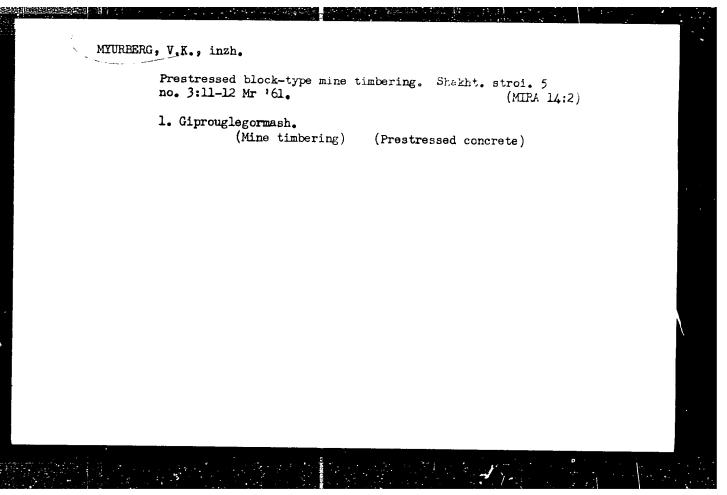
Card 4/4

LARTSEV, G.G.; MYURBERG, V.K.

Conditions for the support of workings in the new sections of the Karaganda Basin. Ugol' 35 no.7:25-28 Jl '60.

(MIRA 13:7)

(Karaganda Basin--Mine timbering)



MYURBERG, V.K., inzh.

Design of lattice steel headframes. Ugol' Ukr. nc.6:23 Je '61.

1. Giprogoruglemash.

(Hoisting machinery)

MYURK, Kherman Yur'yevich; UDAL'TSOV, A.N., glavnyy redaktor; LEVIN, G.E. kandidat tekhnicheskikh nauk, redaktor

[Actinometric rule for determining the coefficient of transparency of the atmosphere Pm and the factor of cloudiness Tm] Aktinometricheskaia lineika dlia opredeleniia koeffitsienta prozrachnosti atmosfery Pm i faktora mutnosti Tm. Tema 7, no.P-56-454. Moskva, Akad. nauk SSSR, 1956. 15 p. (MLRA 10:5) (Actinometer) (Atmospheric transparency)

THE MORK

PHASE I BOOK EXPLOITATION

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Akademiya nauk Estonskoy SSR. Institut fiziki i astronomii

Issledovaniya po fizike atmosfery, Vyp. 1 (Research on Atmospheric Physics, No. 1) Tartu, 1959. 107 p. 300 copies printed. [In Russian and English.]

Editorial Board: J. Ross (Chairman), O.Avaste, Kh. Liydemaa, and H. Murk; Ed.: Kh. Niylisk.

PURPOSE: This publication is intended for geophysicists, meteorologists, and astronomers.

COVERAGE: This is the first issue of a new serial publication put out by the Sektor fiziki atmosfery Instituta fiziki i astronomii AN Estonskoy SSR (Sector of Atmospheric Physics of the Institute of Physics and Astronomy of the Academy of Sciences Estonskaya SSR) on research in the physics of the atmosphere. The publication is to appear at irregular intervals (1 - 2 issues per year) and will, for the most part, contain papers in actinometry. Issue 1 contains articles dealing with radiation intensity and the characteristics of atmospheric transparency, spectral reflectivity of vegetation covers, and a discussion of

Card 1/ 3

Research on Atmospheric Physics, No. 1 SOV/4466	
Makhotkin's index of turbidity. No personalities are mentioned. An summary follows each article. References accompany each article.	English
TABLE OF CONTENTS:	
Murk, H. New Formula for Radiation Intensity and New Characteristics of the Transparency of Atmosphere	f 7
Murk, H. Nomogram for Computing [and Reducing] Certain Characteristics of the Transparency of the Atmosphere	15
Murk, H. Rationality of Makhotkin's Index of Turbidity N	.26
Ross, J. Effect of the Radiation of the Solar Aureole on the Calibration of Thermoelectric Actinometers	43
Poss, J., and O. Avaste. Diffuse Radiation in Tartu	53
Tooming, H. Spectral Reflectivity of Corn Leaves in the 400750-m [Wave-Length] Range	68
Card 2/3	

Research on Atmospheric Physics, No. 1

SOV/4466

Tooming, H. Some Problems Concerning the Distribution of the Total Radiation in the Vegetation Cover

83

The author thanks Yu. Ross.

AVAILABLE: Library of Congress

Card 3/3

JA/dwm/gmp 11-9-60

32281

3,5150

S/169/61/000/011/045 6 D228/D304

AUTHOR:

Myurk, Kh. h.

TITLE:

A new formula for the intensity of radiation and new characteristics of the atmosphere's transparency

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 11, 1961, 23, abstract 11B214 (V sb. Issled. po fiz. atmosfery, 1, Tartu, 1959, 7 - 14)

TEXT: A formula is introduced that expresses the intensity of the integral flow of direct solar radiation in relation to the number of optical masses m and the atmospheric transparency. In deriving the formula the author proceeds from the following positions: 1) The atmospheric transparency does not change in a horizontal direction and remains constant during the considered period of the variation of m; 2) The coefficient of weakening of the integral flow of rediation depends on m; and 3) The change in the coefficient of weakening k is proportional to the change in the number of atmospheric masses dm/m. The formula has the form S_m = Sop^m m^{Bm}, where S_m is

Card 1/2

A new formula for the intensity ... S/169/61/066/011/043015

the radiation intensity when the number of the cs in m. So is the solar constant, and p₁ is the coefficient of atmostheric transferency when m = 1. The magnitudes of p₁ and B depend solely on the atmospheric transpheric and thus characterize it quantitative. Their physical meaning is different: the quantity p₁ characterize the passale of radiation in a single layer of the atmospheric transpheric and the passale of radiation in a single layer of the atmospheric transpheric in the coefficient of radiation weakening during the increase in the number of market radiation weakening during the increase in the number of market from m to 2m. The correctness of the formula is checked by the character's note: Complete translation.

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S/169/61/000/011/042/06 D228/D304

AUTHOR: Myurk, Kh. Ciu

TITLE: The rationality of the Makhotkin index of turbidity N

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 11, 1961, 29,

abstract 11B218 (V sb. Issled. po fiz. atmosfery, 1.

Tartu, 1959, 26 - 42)

TEXT: An appraisal is given for the index of turbidity N proposed by L.G. Makhotkin (RZhFeofiz, no.12, 1957, 10445). For estimating the atmosphere's turbidity characteristics the author suggests application of the following quantitative rational criteria: 1) Sensitivity of the characteristic pertaining to the radiation intensity S, expressed by the quantity $(1/\pi)$ $(d\pi/dS)$ (π) being the turbidity characteristic under investigation); the best of the comparable tharacteristics for this criterion should be recognized as the one for which the sensitivity to changes in the radiation intensity is greatest; 2) The sensitivity to the change in the number of masses m, characterized by the term $(1/\pi)$ $(\partial\pi/\partial m)$; the closer this value is Card 1/3

The rationality of the Makhotkin ...

S/169/61/000/011/042/065 D228/D304

to zero, the more rational may be considered the application of the given characteristic; 3) The generalizing criterion - the coefficient of rationality of the characteristic under study -

$$r_{n'} : \frac{(1/\sqrt{3})(\partial \sqrt{3})}{(1/\sqrt{n})(\partial \sqrt{3})}$$

Besides these quantitative criteria, the author takes in consideration the physical sense and simplicity of calculating is that teristics under appraisal. The mean haphitudes of the radiation tensity at different elevations of the sun and at different degrees of atmospheric transparency are used to estimate the rationality for the suggested criteria. The Kastrov coefficient is possesses the greatest sensitivity to the radiation intensity. It is followed by the Makhotkin index of turbidity N. The remaining characteristics are less sensitive. The Myurk index B has the least sensitivity for m. It is followed by Makhotkin index of turbidity N. The remaining turbidity characteristics are more sensitive to changes in m. These results, as well as the numerical values of the coefficient of rationality reliestify to the fact that the Makhotkin index is

Card 2/3

The rationality of the Makhotkin ... S/169/61/000/011/042/065 D228/D304

turbidity N should be recognized as one of the most rational on reteristics of the atmosphere's turbidity. A nomogram, enabling the magnitude of the Makhotkin index of turbidity to be rapidly and sulficiently accurately calculated from known values of S and m, is appended to the article. [Abstractor's note: Complete translation]

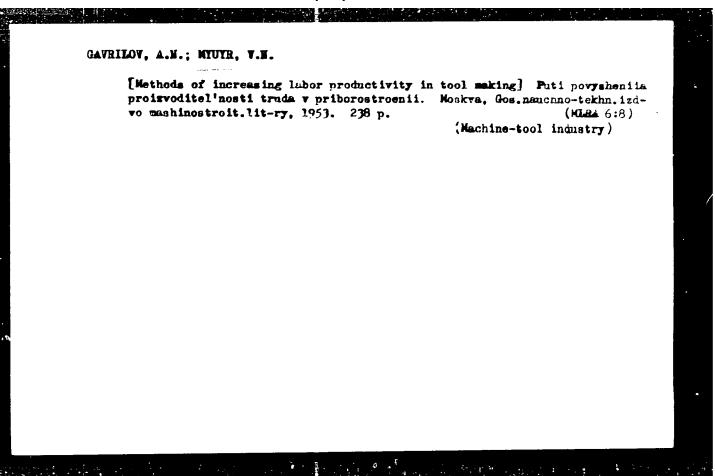
Card 3/3

MYUSKOV, V. F.

"X-ray topographic study of magnesium oxide crystals."

report submitted for 6th Gen Assembly, Intl Union of Crystallography, Rome,
, Sep 63.

Inst Crystallography, Moscow.



1121

PHASE I BOOK EXPLOITATION

Gavrilov, Anatoliy Nikolayevich and Myuyr, Valentin Nikolayevich

Rezervy i puti povysheniya proizvoditel'nosti truda v priborostroyenii (Potentials and Means for Increasing Labor Productivity in Instrument Manufacture) Moscow, Mashgiz, 1958. 642 p. 2,500 copies printed.

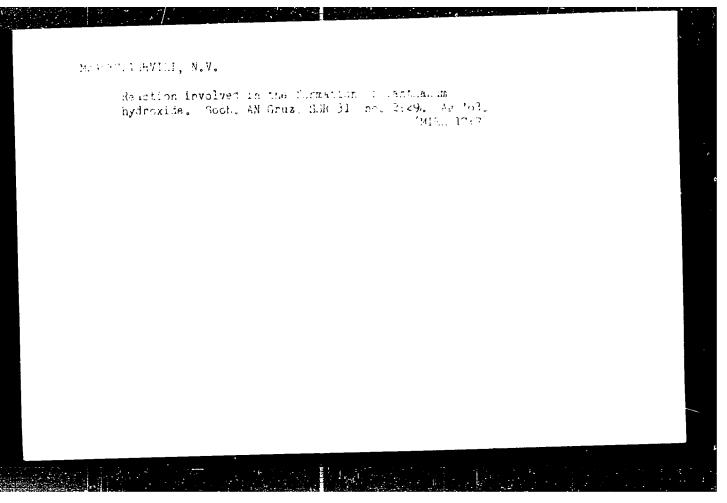
Reviewers: Polyakov, N.I., Professor and Caley, M.T., Candidate of Technical Sciences; Ed.: Avrutin, S.V., Docent; Ed. of Publishing House: Salyanskiy, A.; Tech. Ed.: Uvarova, A.F.; Managing Ed. for Literature on the Economics and Organization of Production (Mashgis): Saksaganskiy, T.D.

PURPOSE: The book is intended for engineering and technical personnel of the instrument manufacturing industry.

COVERAGE: This book discusses basic ways and means for increasing labor productivity in instrument manufacturing operations and it covers the full production cycle including the design and developmental phase of engineering processes as well as actual manufacturing of the final product. Modern methods of casting and pressure forming, making plastic parts, machining metal parts, and assembling instruments are fully described and discussed.

Card 1/11

Potentials and Means (Cont.) 1121	
Methods of overall automatization of production processes are reviewexplained. There are 49 references of which 47 are Soviet, 1 German 1 reference to non-Soviet magazines.	wed and n, and
TABLE OF CONTENTS:	
Foreword	3
Ch. I. Two Basic Trends in Studying and Utilizing Reserves to Increase Labor Productivity	7
Ch. II. Umused Labor Time for Increasing Labor Productivity	9 9
nests tworks in organization of production	9
1. Organization of the technological process 2. Organization of work-station service	19
a Organization of production management	21 26
h Charlestion and cooperation in industry	20
Classification of ways of bringing real labor time	2 8
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Card 2/11	
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MYZDPTH, T. YE.

Steam Turbines- Librication

Improving the work of an oil separator. Reb. energ. 2, no. 6, 1952.

Monthly List of Russian Access ons, Library of Compress, December 1952, UNCLAUSTED.

SOV-91-58-4-16/29

AUTHOR:

Myzdrik, T.Ye., Electric Installation Worker

TITLE:

A System for the Installation of "MKP-160" Type Oil Jwitches and Current Transformers (Konstruktsiya dlya ustanovki trans-

formatorov toka vyklyuchateley MKP-160)

PERIODICAL:

Energetik, 1958, Nr 4, p 21 (USSR)

ABSTRACT:

The author designed a simple and reliable system for the installation of "MKP-160" type oil switches and current transformers. This operation can be very laborious because of the large weight of the transformers (about 200 kg). The described system utilizes a listance wedge and an auto-

matic crane.

There are 2 diagrams.

l Switches--Installation 2. Transformers--Installation

Card 1/1

SHLAIN, I.B., kand.tekhn.nauk; MYZDRIKOV, Yu.A., inzh.; AVERCHENKOV, A.P., inzh.

Improving drilling and blasting operations at quarries. Sbor. trud. NIIZHelezobetona no.7:17-34 '62. (MIRA 16:1) (Quarries and quarrying)

AVERCHENKOV, A.P., inzh.; KRITSKIY, V.G., inzh.; MYZDRIKOV, Yu.A., inzh.

Improving boring and blasting at quarries. Str.i. mat. 9 to.2:7-10 f.163. (Min. 16:2)

(Boring) (Blasting) (Quarries and quarrying)

18,3000 · ·, . . John John College AUTHORS Myzerke, D. K., Passer, ... M Mile e ele, M. , Englineersi Puriffication of Purity Pursues factor Wissels we are TITLE: Elevated Process of any With Post work board PERIODICAL: Star , Dept. Mr. , pr. mar. m. (MSSR) Elektria gas parification, introduced in less a coming to a sesign of the State Institute for the Decise and Planning of Jas (Publication Structures (Dipograms of term) ABSTRACT: Plaining of Jas Purification Structures Diprogram only has failed to produce the expected results. From the too lead the interest need of died optimal rates of gas purification in superation with the personnel of the Design Ural cranen of the State Al. Trion Trust for the Design Planning, Added by and Adjustment of Planting and Control of Memorring Introduction for Memorring Persons Metallogs of the MSSR Transfer of the Microphysic efficiency of Structure PSSR Transfer of the Microphysic efficiency of Structure pipe, and Control filter was investigated with reference to got to produce filter was investigated with reference to got to produce filter was investigated with reference to got to produce. Card Lar

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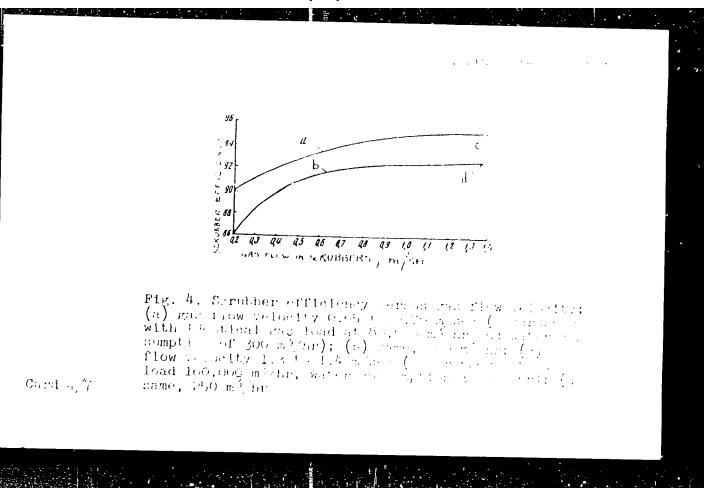
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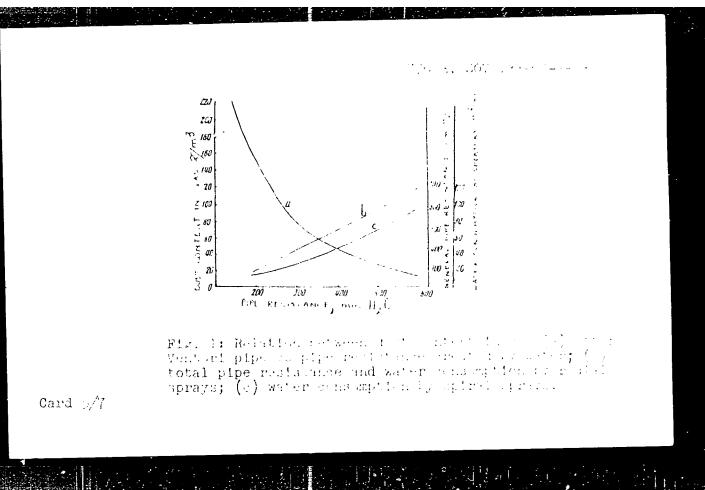
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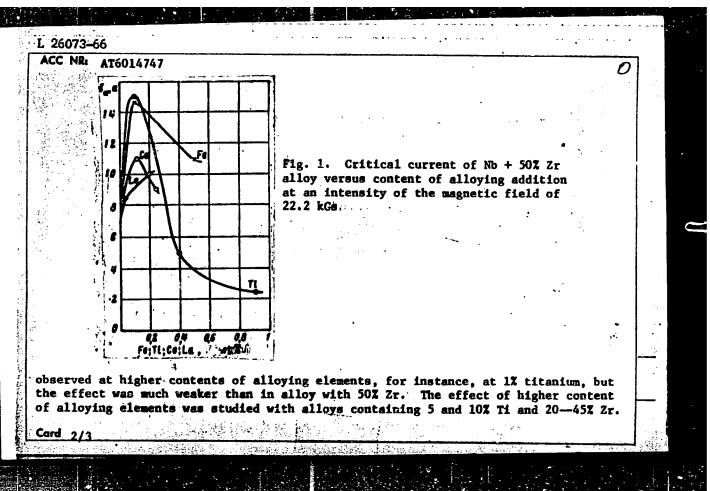
Card 7/7

MYZENKO, D.K., inzh.; POMAZUYEV, V.M., inzh.; MIRONCHIK, M.S., inzh.; KOROL'KEVICH, L.Yu., inzh.

Purification of blast furnace gas without electrostetic filters.
Stal' 20 no. 7:667-670 Jl '60. (MIRA 14:5)

.1. Chelyabinskiy metallurgicheskiy zavod.
(Gases—Purification)

	SOURCE CODE: UR/0000/65/000		0043 73
AUTHOR: Myzenkova L. F.; Ba Kefimov. Yu. V.; Savitskiv. Yo	ron, V. V. (Candidate of technical sc e. H. (Doctor of chemical sciences)	iences);	72 B-1
ORG: none			
TITLE: Effect of alloying add	ditions on the <u>superconductivity</u> of <u>n</u>	iobium-ziro	eonium /
OURCE: Soveshchaniye po meta	allovedeniyu i metallofizike sverkhor	ovodnikov.	lst.
1904. Metallovedeniye i metal]	lofizika sverkhprovodnikov (Metallogr rudy soveshchaniya. Moscow, Izd-vo Na	anhy and oh	vaice of
TOPIC TAGS: superconductivity containing alloy, lanthanum co alloy, titanium containing all	y, alloy superconductivity, niobium a ontaining alloy, cerium containing alloy.	lloy, zirco loy, iron c	nium ontaining
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ibstract: The effect of small the critical current density (l additions of <u>cerium, lanthanum, tit</u> (I _k) of niobium-zirconium alloye has l	anium, and	iron on
lloy wires 0.25 mm in diamete	er, containing 25 and 50 wt% Zr and u	to 0.36%	La.
).39% Ce, 5.44% Ti, or 0.5% Fe Field of 22.4 kGs. Ti, Fe, Ls	e individually added, were tested at a a. and Ce at contents of up to 0.17 in	4.2 K in a	magnetic
READTH FUE TE OF NP + 20% SE 9	alloy. At higher contents, Ik dropped	l again (se	e Fig. 1)
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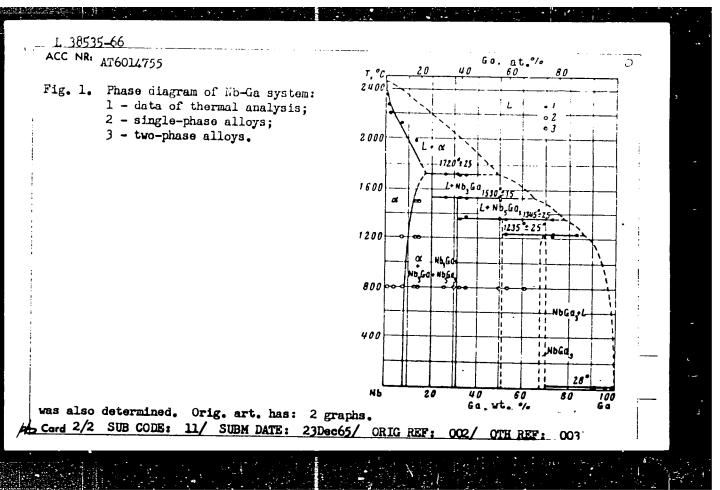


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SUB	CODE.:	11/	SUBM DATE:	23Dec65/	ORIG REF:	003/	OTH REF:	001/	CIA	PRESS:
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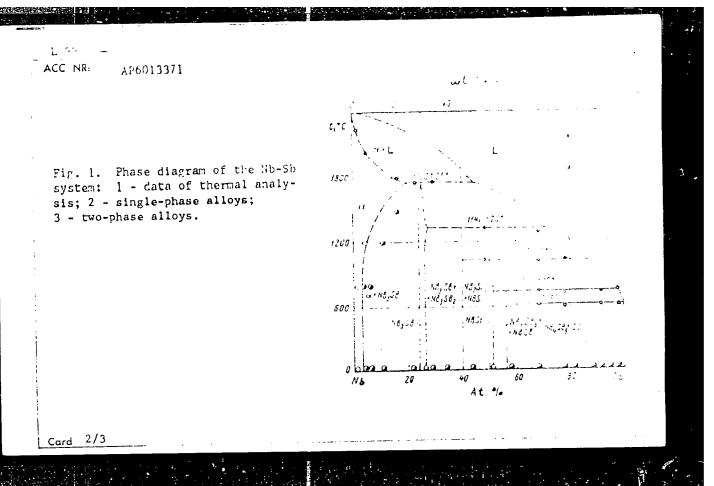
385**35-6**6 EWT(m)/T/EWP(t)/ETI JD/JG/GD SOURCE CODE: UR/0000/65/000/000/0086/0088 AUTHORS: Baron, V. V. (Candidate of technical sciences); Myzenkova, L. F.; Savitskiy, Ye. M. (Doctor of chemical sciences) ORG: none G+1 TITLE: The phase diagram of the niobium-gallium system SOURCE: Soveshchaniye po metallovedeniyu i metallofizike sverkhprovodnikov. lst, 1964. Metallovedeniye i metallofizika sverknprovodnikov (Metallography and physics of metals in superconductors); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1965, 86-88 TOPIC TAGS: alloy phase diagram, niobium base alloy, gallium alloy, hardness, solid solution, x ray analysis, thermal analysis ADSTRACT: A phase diagram is constructed for the niobium-gallium system. The work was done because there are no data on the diagram in the literature. The methods of nicrostructural, thermal, and x-ray analysis, and also the microhardness method were used. Alloys with up to 40 wt % gallium were prepared in an arc furnace in a helium atmosphere. The starting materials were gallium with a purity of 99.99% and sintered niobium (99.7%). After annealing, individual alloys were nardened from 8000 (30 hrs) and 12000 (30 hrs). It was found that, besides the known compound Nb3Ga, three additional compounds are formed in the system: Nb_5Ga_3 (31.08 wt % Ga), $\sim Nb_2Ga_3$ (~51 wt % Ga), and NbGa3 (69.20 wt % Ga) (see Fig. 1). The microhardness of the compounds

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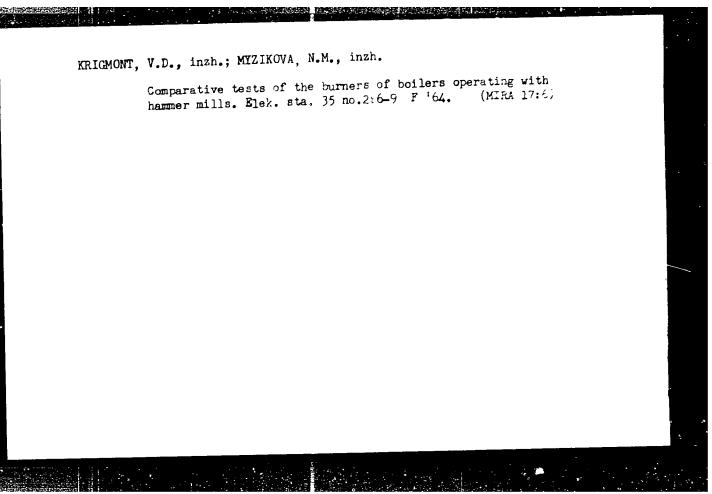
Card 1/2



TITLE: Phase diagram of the niobium-antimony system SOURCE: AN SSSR. Izvestiya. Metally, no. 2, 1966, 163-165 TOPIC TAGS: alloy phase diagram, niobium alloy, antimony attack ABSTRACT: Microstructural, thermal, and x-ray methods as well as microhardness measurements were to lot the use diagram of the hearby system. If four compounds were identified in this system: Nb3Sb (75.00 at. 1 Nc., nosb the combounds are formed by peritectic reactions taking place at 1750, 1140, 1440, and 760°C respectively. The microhardness of alloys based on the compound height amounts to 668-490 kg/mm2, which indicates the presence of a region of solid solution beard on this compound; the microhardness of 103b is 235, and that of NegSbs, and the respectively. X-ray structural analysis confirmed that the compound Mb3Sb has a cubic or intimedantic with constant a=5.26 Å. NbSb has a hexagonal lattice and 1.77 to a compound and the constant a=5.26 Å. NbSb has a hexagonal lattice and 1.77 to a compound and the constant a=5.26 Å. NbSb has a hexagonal lattice and 1.77 to a compound 1.77 to a	ORG: n	one /	
SOURCE: AN SSSR. Izvestiya. Metally, no. 2, 1966, 163-165 TOPIC TAGS: alloy phase diagram, niobium alloy, anticony without ABSTRACT: Microstructural, thermal, and x-ray methods as well as microhardness measurements were to lot the use diagram of the No-Sb system. In 1869, and apparently also Nb3Sb2 (60 at.% Nb) and Nb4Sb5 (44.4 at.% Nb). All the compounds are formed by peritectic reactions taking place at 1750, 1140, 1926, and 760°C respectively. The microhardness of alloys based on the compound Nb4Sb5 to 668-490 kg/mm², which indicates the presence of a region of solid solution be used on this compound; the microhardness of Nb3Sb is 235, and that of Nb4Sb5, and Nb4Sb5, and Schwidt. X-ray structural analysis confirmed that the compound Nb5Sb has a cuite of the lattice with constant a=5.26 Å. Nb5b has a hexagonal lattice and 2.27 or and analysis confirmed that the compound Nb5Sb has a cuite of the lattice with constant a=5.26 Å. Nb5b has a hexagonal lattice and 2.27 or and analysis confirmed that the compound Nb5Sb has a cuite of the lattice with constant a=5.26 Å. Nb5b has a hexagonal lattice and 2.27 or and analysis confirmed that the compound Nb5Sb has a cuite of the lattice and 2.27 or and analysis confirmed that the compound Nb5Sb has a cuite of the lattice and 2.27 or and analysis confirmed that the compound Nb5Sb has a cuite of the lattice and 2.27 or and analysis confirmed that the compound Nb5Sb has a cuite of the lattice and 2.27 or and 2.27 or analysis confirmed that the compound Nb5Sb has a cuite of the lattice and 2.27 or analysis confirmed that the compound lattice and 2.27 or analysis confirmed that the compound lattice and 2.27 or analysis confirmed that the compound lattice and 2.27 or analysis confirmed that the compound lattice and 2.27 or analysis confirmed that the compound lattice and 2.27 or analysis confirmed that the compound lattice and 2.27 or analysis confirmed that the compound lattice and 2.27 or analysis confirmed that the compound lattice and 2.27 or analysis confirmed that the		<u> </u>	
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a/c=1.276) belonging to the NiAs type. Niobium lowers the meliing point of mailtany, forming with it a eutectic (610°C) whose composition is displaced toward antimony	neasure Four co lb), an	elects were idention of apparently also be described by personantly. The management of the management is a second of the management of the	ist the use diagram of the No-Sb yete in this system: Nb ₃ Sb (75.00 at.% Nc., 1056 (50 cm.) Nb ₃ Sb ₂ (60 at.% Nb) and Nb ₄ Sb ₅ (44.4 at.% Nb). All the peritectic reactions taking place at 1750, 1140, 1520, and microhardness of alloys based on the compound http://www.ncs.



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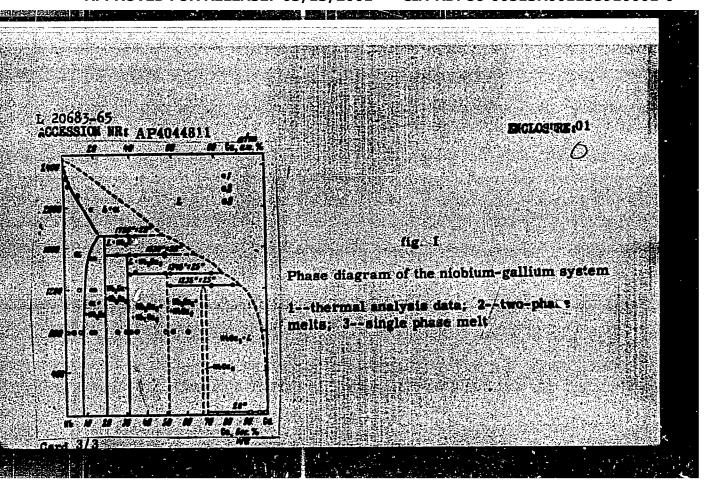
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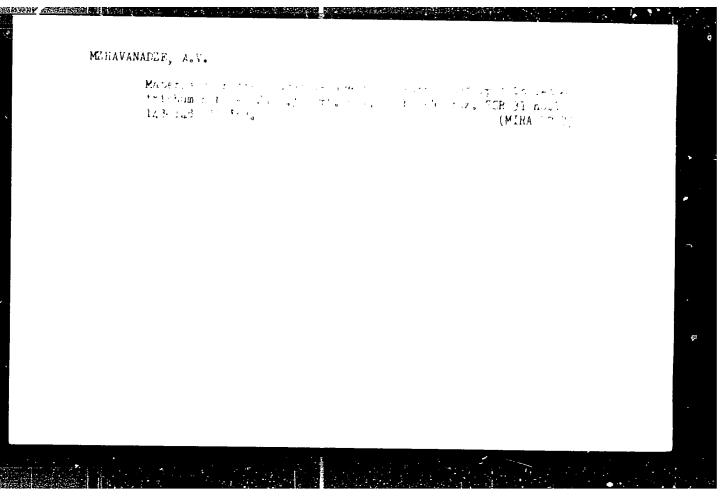
1 20683-65 - HAT(#)/ENP(h)/ENP(t) - 197(c) - JD 8/0078/64/009/009/2170/2173 ACCESSION NR: AP4044811 AUTHOR: Baron, V. V.; Mytzenkova, L. F.; Savitskiy, Ye. M.; \mathcal{B} Glady*shevskiy, Ye. I. TITLE: The niobium-gallium system The state of the s SOURCE: Zhurnal neorganicheskoy khimii v. 9, no. 9, 1964, 2170-2173 TOPIC TACE: mobium gallium system microstructure, microhard cas, therm al analysis, x ray ansi-sis, phase diagram, solid solution ABSTRACT: The Nb-Ga system was subjected to interestructural, microhard noss, thermal and x-ray analyses; the phase diagram was constructed (fig. 1, back) Limited solid solutions based on Nb were formed: at 800C, 8-10% Ga dissolved in Nb, at the peritectic temperature, 18 wt.% of Ga dissolved. In addition to the known Nb Ga (melting 1720 C; Cr Si type structure; microhardness of 850 kg/ $\rm mm^2)$, the following three compounds were found: Nb₂Ga₃ (melting 1530C; tetragonal structure of the W₅Si₃ type; 940 kg/mm²), NbGa₃ (melting 1335C; Card 1/3

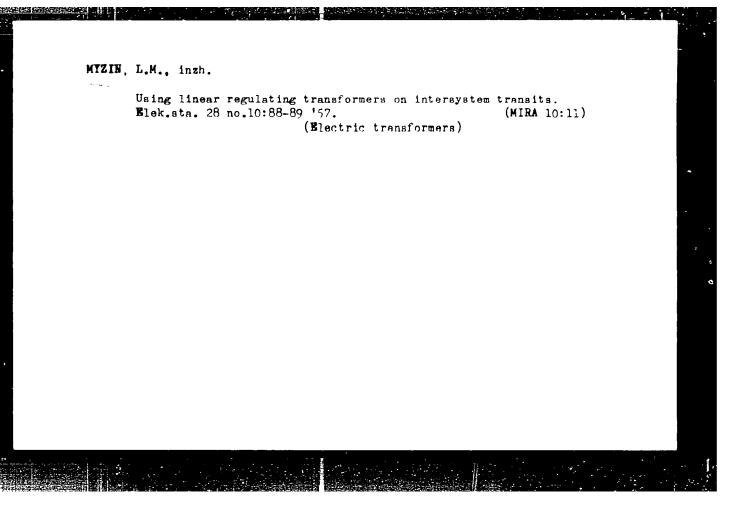
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nating Nb. Ca (melting 1350) o oxist from beyond analys - tempolic sounds it the f	IAl ₃ type: 820 kg/mm ²), and a con C: structure not interpreted by x-1 is data: microhar mess 780 kg/mm iquid state; some solution of Nb in page 3 tables and 3 figures	ray data; assumed; and Ga
ASSOCIATION: None		
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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135910001-0







BLINOVA, V.W.; DEMIDOV, A.A.; KOLIN, Ys.S.; MAKUSHKIN, Ys.G.; MYZIN, L.M.;

PERMYAKOV, N.P.; POWEDILKO, A.I.; BOROVIK, Z.G.; YEFFEMOV, I.A.;

KOPAYGORDDSKIY, A.B.; MARINOV, A.M.; MEKHOROSHKOVA, O.I.; POKROVSKIY,
A.F.; ROMANOVSKIY, A.A.; RASSADNIKOV, Ys.I., red.; SAVELYEV, V.I.,

red.; FRIDKIN, A.M., tekhn.red.

[Electric power in the Urals during 're past "0 years] Energetika

Urela za "0 let. Moskva, Gos. energ. izd-vo, 1958. 1 p.

(Ural Mountain region--Electric power)

AUTHORS:

1) Marinov, A & Engineer, Lyzin, L M. 105-58-6-26/33

Engineer, Pearovskiy, A. F., Engineer

2) Belousov, M M Candidate of Technical Sciences

TITLE:

The Underlying Principles of the Uniform Power System of the European Part of the USSR (Osnovy yedinoy energeticheskog

sistemy yevropeyskoy chasti SSSR)

PERIODICAL:

Elektrichestvo, 1958, Nr 6, pp. 88 - 91 (USUR)

ABSTRACT:

This is a comment on the article by V. I. Veyts in Elektrichestvo, 1957, Nr 1; 1) In the elaboration of a uniform power system its scheme must not be projected starting only and mainly from large power plants. In spite of the gigantic dimensions in the construction of the hydroelectric power plants their specific share in the power economy at the end of the sixth five-year-plan will only amount to 10%. At present thermal power plants with 1 to 1,5 million kW are built in the east, at the Ural and in the south. At first the question has to be answered: what can more conveniently be conveyed - fuel or electric energy? Coal with anash content of 40% has recently be conveyed from the Ekibastuz-basin(75030' east longitude 51040' north latitude) to the Ural. Large thermal power plants

Card 1/4

The Underlying Principles of the Uniform Power System of the 105-58-0-26/33 European Part of the USSR

should be constructed in the Ekibastuz basin and electric energy should mainly be conveyed to the Ural. Open-work mining was begun in the coal basin of Kushmurun (64°30' east longitude, 520301 north latitude) of the Kustanay region. The brown coal of this deposit also has a high ash content. New electric power plants which are supplied with this coal are built at the Ural. At the same time electric power plants with 1,2 to 2,4 million kW are projected in the Kustanay region It had to be determined what can more advantageously be conveyed from Kushmurun to the Ural: coal or electric power. The transfer of electric energy from Siberia to the Ural and farther to the west of the country must not only be brought into accordance with the hydroelectric power plants but also with the working of the large coal deposits in the Asiatic part of the country and with the construction of large thermal power plants. A prinicipal scheme for the connection between Ural and Siberia is given here. According to this scheme two large longitudinal connections in the direction of Omsk-Tyumen'-Sverdlovsk and Omsk-Petropavlovsk-Chelyabinsk should be established. Along the main railroad lines a 110 k distribution network consisting of two-circuit lines of intermediate and cen-

Card 2/4

The Underlying Principles of the Uniform Power System of the 105-56-6-26'55 European Part of the USSR

tral substations with 110 kV is to be set up. For increasing the transmitting power of the 110 kV lines the possibility of changing them to a 154 kV voltage (where necessary) is to be investigated. - At present distributing networks with 110 kV are built in the section of Novosibirsk-Omsk-Kurgan-Chelyabinsk The disregard of the development of o kV, 35 kV and 110 kV networks led to the fact that a large number of small uneconomic plants exist beside large electric power plants and that a considerable number of inhabited places is without power supply. These consume much fuel and need much personnel. An immediate solution of the problem concerning the construction of the hydroelectric power plant at the lower Ob' and the strengthening of the hydroelectric power plants at the Kama is demanded. The works by the Gidroproyekt show that it would be possible to establish a hydroelectric power plant with several million kV at the lower Ob' in the Region of Salekhard (town at the polar circle, on the Ob'). For the next 10 years the Kama and its water basin will represent the main source of the power system of the Ural. The work of the hydroelectric power plants Votkinskaya and Mizhne Kanskaya have recently been check-

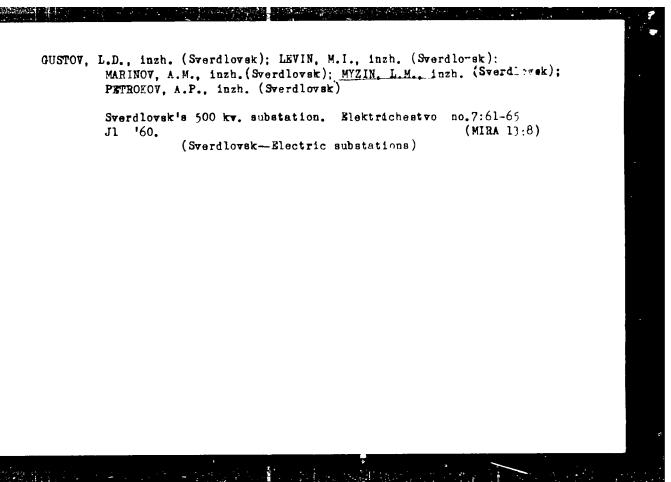
Card 3/4

The Underlying Principles of the Uniform Power System of the 105-58-6-26/33 European Part of the USSR

ed, 2) The first and most important task consists in the connection of the small and average power systems with the lar e ones and in the establishment of the 110 and 35 kV networks for supplying all places and industries by the large power systems. The opinion that the problems on the construction of inter-system lines with 400 kV can be dealt with independentlyly of the problems of the development of 110-220 kV networks is wrong. The only reasonable basis for projecting a uniform high-voltage network is a joint plan for the development of the power systems, the 110 - 220 kV networks and the 400 - 500 kV networks. There is 1 figure.

1 Industry--UCOR 2. Water power--UCOR 2. Electric power power tion--UCOR

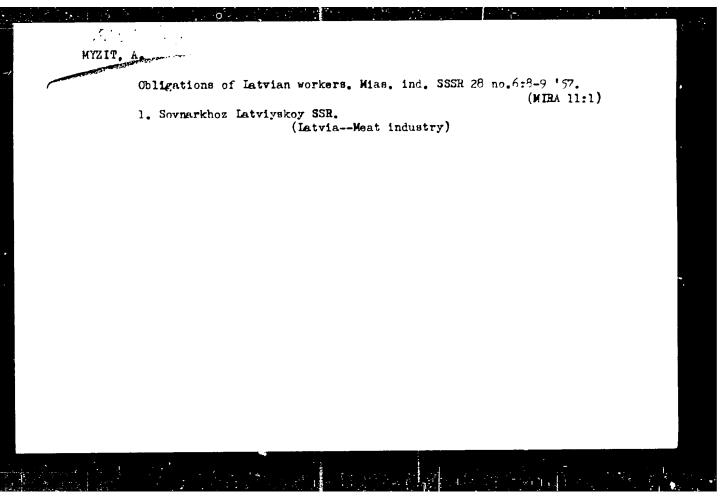
Card 4/4



MOSYAGINA, Ye.N.; MYZINA, N.V.

Pathogenesis of anemia in leukemia in children. Pediatriia 41 no.10:23-29 0 '62. (MIRA 17:2)

1. Iz Instituta pediatrii (dir. - dotsent M.Ya. Studenikin) AMN SSSR.



L 25427-66 EPF(n)-2/ENT(m)/ETC(f)/ENG(m) WW ACC NR: AP6010489 SOURCE CODE: UR/0201/65/000/003/0005/0010	
AUTHORS: Dideykin, T. S.; Myznikov, I. V. 32.	
TITLE: F equency characteristics of a subcritical reactor	•
SOURCE: AN BSSR. Vestsi. Seryya fizika-tekhnichnykh navuk, no. 3, 1965, 5-10 TOPIC TAGS: subcritical reactor, frequency characteristic, prompt	
ABSTRACT: The authors present equations and plots for the phase-frequency, and amplitude-frequency characteristics of a subcritical reactor with different degrees of initial subcriticalities. The plots are obtained on the basis of the equations using a fission	
prompt-neutron lifetime of 5×10^{-5} sec. The results show that at high frequencies ($\omega \ge l^{-1}$, where $l = 5 \times 10^{-5}$ sec) the depth of subcriticality greatly influences the variation of the reactivity	2
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equivalent to either a decrease in the	effective fraction of the de-	· ·
layed neutrons, or to an increase of t ence of the frequency on the criticali	tv can be used both to monitor	
the approach of the reactor to the cri	tical state and for expense	
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